

Amendments to the claims

1. (Original) A nucleic acid molecule encoding a MUC-1 derivative which is capable of raising an immune response in vivo, said response being capable of recognising a MUC-1 expressing tumour, wherein the nucleic acid has a RSCU value for the non-repeat region of at least 0.6 and has a level of identity of less than 85% in comparison with the MUC-1 VNTR nucleotide sequence shown in Figure 9, with respect to the corresponding non-repeat region of wild type MUC-1.
2. (Original) A nucleic acid module as claimed in claim 1 wherein the RSCU is at least 0.65.
3. (Original) A nucleic acid molecule as claimed in claim 1 wherein the identity is less than 80%.
4. (Original) A nucleic acid molecule encoding a MUC-1 derivative as claimed in claim 1 having less than 15 perfect repeat units.
5. (Original) A nucleic acid molecule as claimed in claim 4 having no perfect repeats.
6. (Currently Amended) A nucleic acid molecule as claimed in ~~any claims 1–6~~ claim 1 of which is devoid of the a signal sequence.
7. (Currently Amended) A nucleic acid molecule as claimed in ~~any of claims 1 to 6~~ claim 1 that encodes one or more of the sequence from the group: FLSFHISNL; NSSLEDPSTDYYQELQRDISE; and NLTISDVSV.
8. (Currently Amended) A nucleic acid molecule as claimed in claim 1 ~~to 7~~ additionally comprising a heterologous sequence that encodes a T-Helper epitope.
9. (Currently Amended) A nucleic acid molecule as claimed in ~~any of claims 1 to 8~~ claim 1 that is a DNA molecule.
10. (Currently Amended) A plasmid comprising the DNA molecule of claim 1 ~~to 9~~.

11. (Currently Amended) A pharmaceutical composition comprising a nucleic acid as claimed in claim 1 to 9 or a plasmid as claimed in claim 10 and a pharmaceutical acceptable excipient, diluent or carrier.
12. (Currently Amended) A pharmaceutical composition as claimed in claim 11 wherein the carrier is a microparticle.
13. (Original) A pharmaceutical composition as claimed in claim 12 wherein the microparticle is gold.
14. (Currently Amended) A pharmaceutical composition as claimed in ~~any of claim 11-13~~ claim 11 additionally comprising an adjuvant.
15. (Currently Amended) A medicament comprising a nucleic acid as claimed in ~~any of claim 1 to 9, a plasmid as claimed in claim 10, or a pharmaceutical composition as claimed in claim 11-14 for use in medicine.~~
16. (Currently Amended) Use of A method of treating or preventing MUC-1 expressing tumours comprising administering a medicament comprising a nucleic acid as claimed in ~~any of claim 1 to 9 in the preparation of a medicament for the treatment or prevention MUC-1 expressing tumours.~~
17. (Currently Amended) A method of treating or preventing tumours, comprising administering a safe and effective amount of a nucleic acid as claimed in claim 1 to 9, or a plasmid of claim 10.
18. (New) A medicament comprising a plasmid as claimed in claim 10.
19. (New) A medicament comprising a pharmaceutical composition as claimed in claim 11.
20. (New) A method of treating or preventing tumours, comprising administering a safe and effective amount of a plasmid as claimed in claim 10.